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[NL/NL]; Ooievaarshoek 49, NL-5081 RK Hilvarenbeek (NL).

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(74) Agents: **SPEISER, Dieter K.** et al.; P.O. Box 10 60 78,  
28060 Bremen (DE).

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(71) Applicant (*for all designated States except US*): **NORD-SON CORPORATION** [US/US]; 28601 Clemens Road,  
Westlake, Ohio 44145 (US).

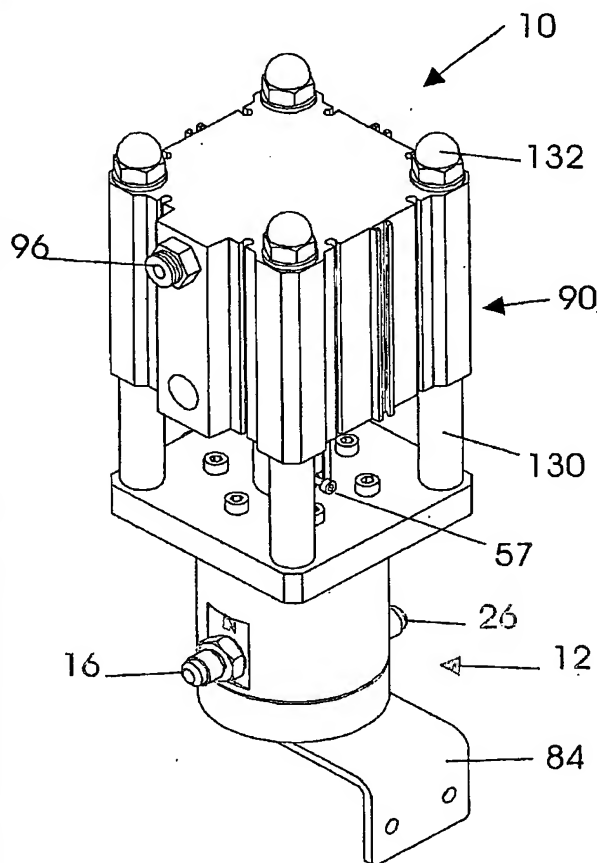
(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **DE LEEUW, Victor**

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(54) Title: **PRESSURE REGULATOR**



(57) Abstract: Pressure regulator with partial volumes for regulating the operating pressure of fluids, in particular adhesives, at the inlet of a consuming device, the first partial volume (14) being connectable to a fluid source and the second partial volume (24) being connectable to the fluid inlet of the consuming device, wherein the second partial volume (24) has a cylindrical section (24a) of variable size, a connecting channel (22) connecting the first (14) and the second (24) partial volumes, a valve disposed in the first partial volume for opening and closing the connecting channel, said valve having an insert (23) and a movable sealing piston (32), the front end of which forms a sealing body (34) for closing the connecting channel and the rear end of which is sealed against the first partial volume. A working piston (54) is disposed in the cylindrical section (24a) for changing the volume thereof, with a front end (59) facing the cylindrical section and the sealing piston, and with a piston rod (56) for moving the sealing piston, said piston rod (56) engaging the front end (59) of the sealing piston and forming an endstop for same. The rear end of the sealing piston and the front end of the working piston are exposed to the pressure of the fluid in the second partial volume (24) while a movable adjuster piston (92) is provided to which compressed air can be applied and which is coupled to the endstop that determines the extent to which the valve opens between its closed and its open positions.



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